$\hbox{A B S T R A C T }$

A METHOD AND A DEVICE FOR REGENERATING AN EXHAUST LINE PARTICLE FILTER, AND A SUITABLE PARTICLE FILTER

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The invention relates to a method of regenerating an exhaust line particle filter wherein particles lining the walls of the filter are heated to a temperature higher than their combustion temperature, which method is

10 characterized in that:

- the heat necessary to heat said particles is produced by adding to a solid first compound present in a reactor a gaseous second compound adapted to combine with said first compound to form a solid third compound by way of an exothermic reaction, and
- the heat resulting from the combustion of said particles is used to regenerate said solid first compound and said second compound by way of an endothermic reaction that is the opposite of said exothermic reaction.

The invention also relates to an exhaust line and a particle filter for implementing the above method.

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Translation of the title and the abstract as they were when originally filed by the 35 Applicant. No account has been taken of any changes that may have been made subsequently by the PCT Authorities acting ex officio, e.g. under PCT Rules 37.2, 38.2, and/or 48.3.